The Wobbly Oscillator

Cuyahoga Amateur Radio Association

August 2025 Volume 55 Number 8

Hams Who Serve

August 15th Annual Picnic

NEW LOCATION

James Day/NIKE Park, Parma

From the Prez

Toby, WT8O

Annual CARS Picnic

The annual CARS summer picnic will be held Friday, August 15th at 6:00 PM, at the James Day/ Nike Park in Parma. The event, which will feature all the usual grilled picnic fare and side dishes, is FREE to all CARS members, their families, friends, and neighbors. Besides dinner, the picnic will feature prize drawings, games, and a 2 Meter call-in station awarding everyone who calls in a ticket for a separate prize drawing.

This year, we will have a new venue for the summer picnic, although it is familiar to all the CARS Field Day participants and visitors. The park provides us with a beautiful pavilion to accommodate the picnic. Most of us realize how much past picnics helped us to become better acquainted with fellow members and their families.

Traditionally, guests bring side dishes and desserts. The response has always been extraordinary, with taste treats that cause us all to put on a pound or two.

Please contact Al Farley at afarley94@yahoo.com with the number of people you will be bringing to help us determine the amount of food to buy.

New Net Controllers

Three members have stepped up volunteering to join the net controller team. Al, KF8BCC; Mark, KC8ESG, and Yuri, W4YSW, accepted the challenge to join the rotation of Net Control Stations for our weekly club nets.
We will insert them into the schedule in the near future. It will be interesting to see how their individual styles enhance our nets.

Our nets sure could use more participation, especially from CARS members. We make it easy enough to check in with options including 2 Meter or 70 cm RF, EchoLink, AllStar, or WIRES-X. We strongly encourage more members to get into the log on Wednesday evenings.

73, Toby, WT8O

Next CARS Meeting

Tuesday, August 12 - 7:30 PM

Harriet Keeler Picnic Area

Brecksville Reservation, Cleveland Metroparks

Matt Nickoson, N8ESG

Will present a program on:

Doppler Weather Radar

See Website for Details - www.2cars.org

CARS Annual Picnic

Friday, August, 15 - 6:00 PM

NEW LOCATION

James Day/NIKE Park

11828 West Pleasant Valley Road

Annual Picnic

Contact Al, KF8BCC at afarley94@yahoo.com

Food, Prizes Fun

See Website for Details - www.2cars.org

July Meeting Minutes

TextLOCATION - The meeting was held on July 8th at the Harriett Keeler Pavilion in the Brecksville Reservation of the Cleveland Metroparks.

CALLED TO ORDER - President Toby Kolman, WT8O, called the meeting to order at 7:30 PM.

PLEDGE OF ALLEGIANCE - Those present pledged allegiance to the flag of the United States of America.

INTRODUCTIONS - Those present introduced themselves. The meeting had 27 attendees, including four guests.

MEETING MINUTES - The June minutes, as published in the July issue of the *Wobbly Oscillator* (*WO*), were approved.

TREASURER'S REPORT - Toby Kolman, WT8O, gave an update on behalf of Matt Perlman, KE8OZU, on the club's finances. No issues were reported.

PRESIDENT'S REPORT - Toby Kolman, WT8O, reported the following:

Recommended making Ron Hollas, K8RJH, an honorary member. The club voted on this, and the motion passed.

Voted on new members - Jim Grimes, KC8OCW, Frank Richey, KN4AW, and Michael Goltz, N8DNA. The club voted in all new members.

Election of a new Vice President - Toby nominated John Dernar, NU8Y, for the Vice President position. This motion was seconded, and John was voted into the role by the members present at the meeting.

And the winner is...July 50:50 was won by Andy, KD8SCV who donated it back to the club.

Field Day Update - Field Day went well, the weather was nice and people had fun.

- Gathered feedback on the site - Overall positive feedback from the club members. One member recommended that we have better signage for next year to attract more guests.
- Big thank you to everyone who came out! Certificates were handed out to members who made contacts during Field Day.

PUBLIC SERVICE - Chuck, K8CVM, shared that all CARS members are invited to the local ESG/ARES meetings. The meetings are held on the third Tuesday at 7:00 PM each month, typically at the Helwig Whistle Stop. Visit https://n8esg.org/ for details. The following are upcoming events:

Pan Ohio Hope Ride - No need for more volunteers at this time.

Next month's events include Peddle to the Point and the Cleveland Rock and Roll Triathlon. Both events still need volunteers.

VE UPDATE: Metro, W8MET, shared that the next VE session is this Sunday at 9:00 AM.

PROGRAM COMMITTEE - Joe, KD8BAL, reported that:

New Vice President. . .
John, NU8Y was voted in as vice president to fill the position formerly occupied by Ron Holas, K8RJH, SK

Today's presentation is on Grounding and Bonding and is being presented by Mark Moro, WJ8WM.
Next month's presentation is by Mat Nickoson, KC8NZJ, and will cover a basic overview of Doppler weather radio and using apps to view it.

TECH COMMITTEE - Scott, AC8TN, had no news to share with the group.

OLD BUSINESS - Toby, WT8O, led a discussion on the following:

- Mentoring sessions - Current topics focus on setting up a station and will be presented in steps
  - We will incorporate them into our meeting program verse before the meeting.
  - Today's program, which focuses on grounding and bonding, is part of this series.
  - We can also discuss these topics in the Discord Chatroom
  - Parallel articles will be in the WO
  - Future ideas include:
  - Coax cable assembly
  - Anderson Power Poles
  - Basic radio operation
- CARS clothing - A link will appear on the 2CARS.org website to access a new 3rd party site, which will be selling CARS branded clothing. During the meeting, Al, KF8BCC, led a discussion on options for the types of clothing and colors to be offered for sale.
- Used equipment for sale at the meeting - If you are interested, please get in touch with Toby. More gear will come to future meetings.

NEW BUSINESS - Toby, WT8O, led a discussion on the following:
New net controllers are needed - Yuri, W4YSW, Al, KF8BCC, and Mark, KC8ESG, all volunteered.
Bob announced Independence Home Day on August 1st and 2nd. CARS will have a booth. Please stop by.

CARS members present at the July meeting voted unanimously to honor Ron Holas, K8RJH, SK by recognizing him as an Honorary Member of CARS

REFRESHMENT - Thank you to John, NU8Y; Mark Rosewicz, KC8ESG; Matt, NU8H

NEXT MEETING - The Cuyahoga Amateur Radio Society's next meeting will be on August 12th at the Harriet Keeler Picnic Area, Brecksville Reservation, Cleveland Metro Parks

ADJOURNMENT - Toby, WT8O, adjourned the meeting.

50/50 Drawing - Andy, KD8SCV, won the 50/50 drawing and donated the winning back to the club.

Submitted by Matt Neely NU8H

Special Note

Andy, KD8SCV received the following response from his host at WAARCI following the article he submitted for the July Wobbly Oscillator:

Andy,
Thank you for the wonderful article in your newsletter. I will be sure to share this with our members via our own media and I am sure our club will be thrilled to hear of your visit and to see your very flattering article. It was a pleasure to meet you and your brother-in-law. Hopefully you have sparked some interest in getting out and meeting other clubs in your readers as they travel around.
73
Cary, KB0HV

Ohio QSO Party

There will be a CW and SSB Ohio QSO Party on Saturday August 23rd. It is a 12-hour contest which starts at noon and ends at midnight.

The operator can work any amount of hours they choose. Many stations will be looking for contacts with Ohio because Ohio will be sought after for points given out from Ohio.

Official License Copy

Navigating government offices can be daunting. The FCC is no exception. Since February 2015, the FCC has not routinely issued printed license documents. Instead, applicants and licensees need to access the Universal Licensing System (ULS) to obtain an "Official Copy" or "Reference Copy" of their license. Amateur radio operators who want to obtain amateur radio license plates or nenew their plates in the state of Ohio will be required to present a copy of their license to obtain plates and each time they renew their amateur radio plates.

Anthony Luscre, K8ZT put together a guide to obtaining copies of your license. A link to those instructions was published in the ARRL Ohio Section Journal.

https://arrl-ohio.org/wp-content/uploads/2024/07/print_your_license.pdf

Editor's Note: The PDF of your license includes a wallet-sized copy which can be cut out and folded in half and laminated to carry conveniently in your wallet. I personally print the wallet-sized license and laminate it with a luggage tag kit available from office supply stores. The luggage tag is convenient to attach your license to the same clip with your CARS member badge or any other ID badge you might use when operating under your amateur radio privileges. It is also useful using the luggage tag strap to secure a license inside the cover of a go box to ensure you have your license ready to display when operating remotely.

File Number	Print Date	Effective Date
	04-19-2024	04-16-2025

THIS LICENSE IS NOT TRANSFERABLE

Special Conditions / Endorsements:

NONE

(Licensee's Signature)

FEDERAL COMMUNICATIONS COMMISSION

Certificate of Code Proficiency Recipients

Sponsored by begali keys www.i2rtf.com

This month, ARRL recognizes merit and progress in Morse code proficiency on the part of the following individuals, who have achieved proficiency at the following rates, in words per minute.

January 2025
Ronald M. Bell, KG5CWH 10
Luke A. Sandell, KN4FVR 10
Freddie O. Cruz, AA2QL 15
Forrest Phillips, AEØQH 15
Ron Kinney, KCØZPS 30

February 2025
Michael R. Meadows, KEØFFT 10
James J. Werth, KD1AO 15
Barry G. Fluxe, W4LSV 20
Dominick F. Golino, NR2Z 20
Roger L. Burkhart, N3GE 25

March 2025
Richard L. Eilers, Jr., K4RLE 10
Horacio S. Falciglia, KA8TVY 10
Sherrick A. Slattery, KA6NZB 15
Brian A. Bayani, KT3X 20

April 2025
Scott A. Fronius, N1HQZ 10
Simpson A. Huston, N8UZF 10
Steven M. Johnson, WB4WBO 10
Clifford R. Cantrell, N5GWU 15
Joseph L. Kelly, N9SV 15
Steven M. Johnson, WB4WBO 15
Michael A. Kramer, N5XTH 30
Michael A. Kramer, N5XTH 35

May 2025
Bruce A. Smith, W4DPI 10
Jeremy L. Wallace, NR9I 10
Kenneth F. Robinson, K8SCA 15
Thomas P. Stelmach, NØQBX 15
Vincent L. DeCaprio, KD2VLQ 15
Barry G. Fluxe, W4LSV 25

Congratulations to all of the recipients.

August 2025 W1AW Qualifying Runs

W1AW, the Hiram Percy Maxim Memorial Station at ARRL Headquarters in Newington, Connecticut, transmits Morse code Qualifying Runs to assist ham radio operators in increasing and perfecting their proficiency in Morse code. Amateur radio operators can earn a Certificate of Code Proficiency or endorsements by listening to W1AW Qualifying Runs.

August Qualifying Runs will be transmitted by W1AW in Newington, Connecticut, at the times shown on 1.8025, 3.5815, 7.0475, 14.0475, 18.0775, 21.0675, 28.0675, 50.350, and 147.555 MHz. The West Coast Qualifying Runs will be transmitted by K6KPH on Saturday, August 23, at 2 PM PDT (2100 UTC on August 23) on 3581.5, 7047.5, 14047.5, 18077.5, and 21067.5 kHz. Unless indicated otherwise, sending speeds are from 10 to 35 WPM.

Amateur radio operators who participate in Qualifying Runs may submit proof of 1 minute of the highest speed they have copied in the hope of qualifying for the Certificate of Code Proficiency, or an endorsement to their existing certificate.

Legibly copy at least 1 minute of text by hand, and mail the sheet to: W1AW Qualifying Runs, 225 Main St., Newington, CT USA 06111.

Include $10 (check or money order) if this is a submission for your initial Code Proficiency certificate; $7.50 if you are applying for an endorsement (available for speeds up to 40 WPM). Your text will be checked against the actual transmissions to determine if you have qualified.

Members of the North Fulton (Georgia) Amateur Radio League (**https://nfarl.org**) are offering to subsidize the total cost of a Code Proficiency certificate or endorsement submission for any individual age 21 years and younger, and who reside in either the US or Canada. Participants who wish to make use of this offer should indicate on their Qualifying Run submissions they are age 21 or younger, and certify as such via their signature. Eligible participants are not required to send any fee with their Code Proficiency submissions.

For more information about Qualifying Runs, please visit **www.arrl.org/qualifying-run-schedule**

For information about how to qualify for the Certificate of Code Proficiency, please visit **www.arrl.org/code-proficiency-certificate**.

W1AW Qualifying Run Schedule – August 2025
(All times are in Eastern Daylight Time.)

Monday	Tuesday	Wednesday	Thursday	Friday
8/4 4 PM – 2000Z 10 – 35 WPM		**8/6** 7 PM – 2300Z 35 – 10 WPM		**8/8** 9 AM – 1300Z 10 – 35 WPM
8/11 4 PM – 2000Z 10 – 35 WPM	**8/12** 7 PM – 2300Z 10 – 40 WPM		**8/14** 9 AM – 1300Z 35 – 10 WPM	
	8/19 7 PM – 2300Z 10 – 35 WPM	**8/20** 10 PM – 0200Z **(8/21 – UTC)** 35 – 10 WPM	**8/21** 9 AM – 1300Z 10 – 35 WPM	
8/25 10 PM – 0200Z **(8/26 – UTC)** 10 – 40 WPM	**8/26** 9 AM – 1300Z 10 – 35 WPM			**8/29** 7 PM – 2300Z 10 – 35 WPM

Congratulations again to Simpson, N8UZF, on his recognition in ARRL's QST magazine for achieving a proficiency with Morse Code or 10 words per minute. Simpson completed the CARS Morse Code class earlier this year.

A new class is being formed to begin in October. Contact Dave, AC8TN or Metro, W8MET for more information.

VE Session Results

In the latest VE session July 13th, five individuals passed their Technician exam:

Jason Berry
Craig Bernard
Francesca Piccioni
Brian Sellers
Shawn Sova

VE examiners were: W8MET, NI8Z, Nu8H, AC8TN, N8TCP, N8UZF, K8KR, and N89LRS

My Radio Journey

When I was 10 years old, my friend Rick got a set of walkie-talkies for Christmas. I really thought those radios were the neatest things ever. He and I talked on them in his parents' house, all the way from the basement to the upstairs. The radios had a lot of static but we usually could figure out what each other was saying. Sometimes we had to yell to supplement the conversation.

Most of us probably started our ham radio journey at a young age using basic walkie talkies to communicate with friends and launch various adventures.

In high school I had my own beater of a car. Like many of my friends, I installed a CB radio in my car. The CB was a lot of fun. We all had our own cool "handles." We all knew the CB lingo – "What's your 20, buddy? How is it looking over your shoulder?".

When I bought my first of three jet skis about 20 years ago, I purchased a Standard Horizon waterproof handheld marine band radio for emergencies. The radio is a solid performer made by Yaesu, and I still use it.

After I got my Amateur Radio Technician license, the first amateur radio I purchased was a Leixen 25W dual band mobile radio from Amazon. This $50 radio worked OK

For many hams, their first "mobile"was a CB radio. Licensing requirements were eased after future first lady Rosalind Carter took to the airwaves on the campaign trail.

CB may have been less formal than amateur radio, but it included iits own language and procedures.

and was easy to program with Chirp. I think the radio was actually a Baofeng inside.

Next, I upgraded to a Yaesu FTM-7250 dual band radio. The 7250 is an excellent radio that I still own. It is very simple and extremely easy to operate.

With a new Technican license and limited HF privileges, many hams found a somewhat familiar and comfortable "home" on 2 meters and 70 cm. The HT and mobile radios were familiar, and repeaters and nets helped get acquainted with other hams.

At Hamvention a few years ago I got a deal on a newly released Yaesu FTM-500 digital dual band radio. This radio has more bells and whistles than any of my previous radios, and it takes a bit more effort to operate. It is a modern digital radio that I use for the weekly nets and for Wires-X communicating.

The last radio I acquired was an Icom 7300 HF radio. This is a fantastic radio that works extremely well. There

Radio activity didn't have to be limited to CB or ham bands. Other hobbies such as boating or off-roading rely on radio communication for safety and other important communications.

is an amazing amount of hardware and software options available for this radio, probably more than for any other radio out there. Although the 7300 has been on the market since 2016, it is still a solid performer and an excellent HF radio for any shack.

Amateur radio offers ant array of opportunities at each licensing level. HF privileges are significantly expanded at General and Extra levels. Morse code (commonly referred to as CW), digital, satellite, and a whole range of options are available for exploration.

In addition to spectrum and mode opportunities, amateur radio can open up a whole range of options in contesting, DXing, public service, and electronics.

Your ham license can be a first step to a fascinating hobby

This is a little bit of my personal journey, please consider submitting a short story about your radio adventures and your favorite and not-so-favorite radios and equipment. (Send queries and submissions to newsletter editor Perry, KB8AYQ at perry@trunick.com)

John - NU8Y

CARS Repeaters

146.820 (-) PL Tone 110.9

Analog Repeater

Main Site – Brecksville

Receive Only Site – Brunswick

Receive Only Site – Shaker Hts.

AllStar Node 47067

EchoLink Node 343470 (K8ZFR-R)

WIRES X Node 91242 Room 01242

****

443.825 (+) PL Tone 131.8

Digital Yaesu Fusion

Linked to 146.820 Repeater

Brecksville

****

444.75 (+) PL Tone 131.8

Analog Repeater

Not Linked to Other Repeaters

Shaker Hts.

An SWR Adventure

I went to transmit on 40 meters and noticed that my meter is indicating an SWR reading that was high for me. Sometimes SWR is 5:1 and 10:1. This is bad.
With the help of David AC8TN, we checked coax, and 12 conductor wiring connections at my controller on my desk for any open and incorrect voltages at ground level making sure that everything was correct. I was still getting unacceptable readings.
My antenna is on a tower at 50 feet. Now, I had to bring the tower down to check those connections. Upon inspection of the wiring junction box, to my amazement, I found a nest.
I cleaned out all nesting material. Raised the tower and hoped this will fix the high SWR issue.
I now get correct readings. What an adventure.

Metro W8MET

EDITOR'S NOTE: Metro isn't the only one with potential issues related to nesting activities. My wife and I are frequent visitors to the Avon Lake eagle's nest behind the Redwood Elementary School. Many of the eagle fans are diehard raptor fans as well.
One tip off recently was that there were ospreys at the Avon Lake fire station. We decided to check it out. We found a nest on the fire station's antenna tower woven in amongst the public safety and cell phone antennas. One osprey was clearly on guard. The other flew in sonn after we got there. I doubt anyone will be clearing the nest until the young ospreys fledge.

August Net Sked

Aug	6	WT8O
Aug	13	KD8ACO
Aug	20	AC8NW
Aug	27	AC8TN

Nets are run every Wednesday at

9:00 PM on:

146.820 (PL 110.9)

443.825(+) PL Tone 131.8

Digital Yaesu Fusion / C4FM

Linked to the 146.82 Repeater

EchoLink Node 343470 (K8ZFR-R)

Allstar Node 47067

WIRES X Node 91242-Room 01242

NOTE: Practice nets are conducted weekly on the CARS repeater. All hams are welcome to participate in the net.

The weekly nets are a good opportunity to hone your skills and meet other hams.

Net control will open the net and ask for "check ins." You can give your callsign, name, and location and simply listen to the rest of the net, or you can join the conversation.

As you become more comfortable, you may want to try acthing as net control.

Welcome
New Members

Frank Ritchey, KN4AW

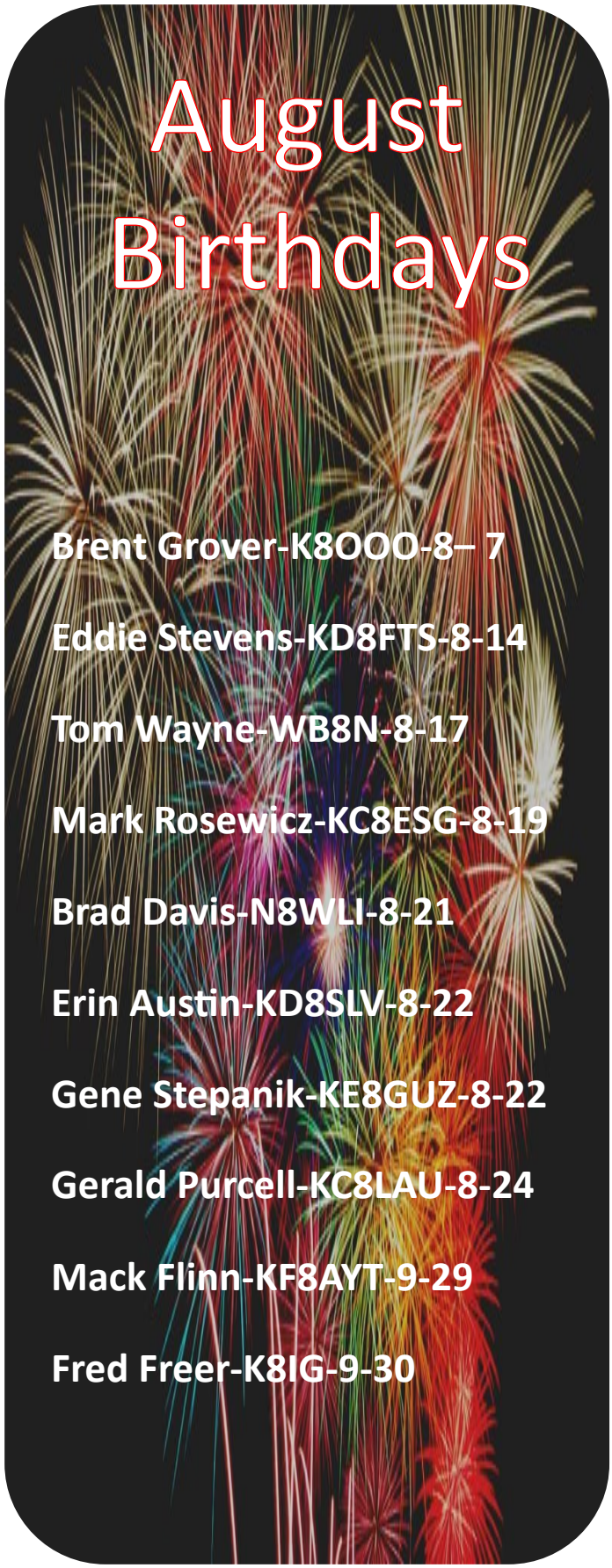
Jim Grimes, KD8OCW

Mike Goltz, N8DNA

On-Air Opportunity

Shared by member, Metro, W8METxt

PROSPECTORS ON AIR
UNITING AMATEUR RADIO & GOLD PROSPECTING
SATURDAY, AUGUST 30 & SUNDAY, AUGUST 31, 2025
ON THE AIR FROM: OHIO GOLD RUSH DAYS
1099 CUTNAW RD, BELLVILLE, OH 44813
• PARTICIPATE ON AIR ACROSS THE U.S.
• LEARN ABOUT AMATEUR RADIO
• SHARE YOUR EXPERIENCES #PROSPECTORSONAIR
TUNE IN OR JOIN US IN THE FIELD!



For Sale

Contact Toby, WT8O, wt8o@att.net or 440-525-6109, to purchase or questions. All reasonable offers considered (Images may be representative of the actual item being offered for sale.).

Icom 746 - All mechanical filters installed. $400.00

Alinco DM-330MV – 32 Amp switching power supply - $80.00

Yaesu FT-2500M – Mobile - $60.00

Astron RS – 35M -Linear power supply - $120.00

Standard - Tri-Band 50/144/450 MHz – Mobile – Many accessories included. $50.00

Alpha Delta-4 – Coax Switch/Surge Protector - $60.00

Elmer Class for New Hams

Obtaining your Amateur Radio License is a big accomplishment. Knowing how to use your privileges can sometimes be daunting. Looking through a DXEngineering or HRO catalog might leave more questions than answers. CARS wants to provide you the support to set up your own ham station at home. We are exploring the possibility of conducting a 6 week (1 hour) class where experienced hams (Elmers) lead you through a step by step process on how to get a home HF and/or VHF station assembled and on the air. Please fill out the attached survey so we can determine your interest and to gauge where you are in this process. Once the survey is completed send it to me for compilation (korowde@netzero.com).
We re hoping to begin the class mid-September.
CARS is here to help you get on the air from the comfort of your home QTH.

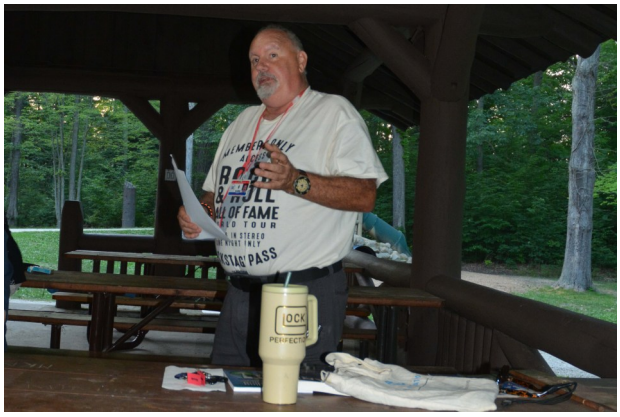
73
Dave AC8TN
Metro W8MET

ELMER Class Questionnaire

	Question	Answer
1	Are you interested in attending a series of 6 classes to learn how to set up a HAM home station?	○ YES ○ NO
2	What is your knowledge on this topic?	
3	Which option would you attend: a.) 8:15pm after monthly CARS meeting b.) Twice a month on Thursday evenings 7:30-8:30pm in 7-Hills? c.)other (write in)	○ a ○ b ○ c
4	Primary interest VHF or HF home station? Other?	○ VHF ○ HF ○ other
5	What class license do you have?	○ Technician ○ General ○ Extra
6	What equipnent do you own now?	
7	Can you get on the air now?	○ YES ○ NO
8	Describe your station.	
9	What bands do you want to operate on?	
10	When do you want your home station operational?	○ this year ○ next year

Getting Grounded

From the July presentation by Mark, WJ8WM



As part of the effort to help members (and guests) better understand some of the technical aspects of the amateur radio and to help in setting up your station, Mark, WJ8WM presented on grounding your station.

Mark decided to start with the theory to discuss *what* you are doing and then follow up in a later session with more practical demonstrations of how to ground gear.

He began by asking how many present lived in homes built before 1950 and was anyone using non-solid state equipment (tubes). Those are the radios that caused the most concern for shock or electrocution, he noted, because there was significant electrical current flowing inside the case. Add electrical service that was not grounded, and it was not a good combination. Today's equipment may have less current bouncing around inside the case, but grounding is still an important safety factor.

There are three things to look for when grounding, Mark noted:

- AC current
- RFI/RF signals – which you can get on both transmit and receive because you can pick it up in the house and you can't get rid of it without a ground.
- Lightning protection. With lightning, it doesn't matter how good your ground is, if it wants to destroy something, it will. But, the more energy you can get safely into the ground, the better off you are.

The other concept is bonding. This involves connecting things so they "talk" to each other – the metal on your power supply, the ground terminal on your radio, your amplifier, your coax; they all connect in various ways. This produces "potential." Grounding reduces potential, and when there's no potential, there's no risk of shock.

Shock hazards occur when there's a difference in potential between your antenna and you, your radio and you, your radio and your antenna, etc. The problem is, first, putting yourself in that circuit. You don't want to become a conductor for electrical current. But you may also be using your radio as a surge protector to clear these faults if your station isn't properly grounded. You want the faults to go through a cheap item and into the ground.

The first step is to make sure your electrical service is properly grounded. The ground should be connected to the water line within the first five feet of where it comes out of the floor or wall. Don't rely on other plumbing fixtures because repairs or installations may have replaced sections of copper with plastic, and that negates the grounding.

Next, you want a common point in the station where everything can be grounded – the bonding point. It can be a strip of copper or a commercially available connector.

Ideally, you want to bring a dedicated electrical circuit to the station. Even better, install a toggle that allows you to cut the power and ground everything.

You can also add GFCI (ground fault circuit interrupter) outlets. These typically trip at five milliamps. It may seem like an inconvenience that they trip so low, but Mark pointed out, at 10 milliamps it is hard to let go of what you are gripping. And, 20 milliamps causes muscle contractions – your can't let go. Just 100 milliamps ($1/10^{th}$ of an amp) can stop your heart.

Ground rods can be a challenge in the local soil because of the high clay content and rocks. Electrical code calls for an eight-foot ground rod, and allows for driving the rod at a 45-degree angle. Mark recommends taking advantage of the angled approach to make it easier to drive the ground rod.

It is also permitted to bury the rod 30 inches deep in the ground, so if you are having basement waterproofing or other digging done, it is a good time to put in a ground rod.

The electrical code calls for 25 Ohms of resistance or less from the ground to the earth. This is difficult to measure and requires special equipment. If the 25 Ohms might not be possible, a second ground rod can be installed. With the standard eight-foot ground rod, the code calls for the rods to be 16 feet apart.

A #6 conductor is adequate for grounding. "Bigger isn't better," Mark commented, "it's just wasted."

CARS will be presenting other practical programs for experienced and newly licensed hams. Elsewhere in this issue of the Wobbly Oscillator is a description of the Elmer program that is being developed. Members are encouraged to complete the survey to help in planning programs that will be the most beneficial for new and old hams who want to set up or improve the operation of their station.

September VE Session

The next VE testing session will be held **Sunday, September, 14th,** at 9:15 AM

Testing is at the Old Elmwood Recreation Center, 6200 Pete Wisniesky Parkway, Independence 44131. Directions and a map are on the CARS website homepage. For information or an appointment please contact Metro, W8MET, at 216-520-1320 or metro351@sbcglobal.net

As always, walk-ins are welcome.

No matter what your license class is, or how much time you have available to volunteer, your service would be welcome in a number of ways this year! Just be sure to ask any CARS officer or active public service member in our scheduled Monthly Club meetings for current volunteer information.

Special VE sessions are also be scheduled at the completion of the CARS licensing classes. Watch the Wobbly Oscillator and the CARS website for additional information about classes and special VE sessions, or contact Metro, W8MET.

Honorary Members

Any person who by nature of outstanding or meritorious contribution to the furtherance of amateur radio and the ideals of the Cuyahoga Amateur Radio Society

Robert Check, W8GC
Elected 2/10/15

Thomas Wayne, WB8N
Elected 1/10/17

Dwaine Modock, K8ME/SK
Elected 5/9/17

Toby Kolman, WT8O
Elected 10/10/17

Jerry Smith, NW9H
Elected 5/8/18

Ron Borkey, K8VJG/SK
Elected 5/14/19

Ed Stevens, WB8ROK/SK
Elected 8/10/21

Vince Bak, N8OVW/SK
Elected 11/14/23

Ron Holas, K8RJH, SK
Elected 7//8/25

Dues Notice

Matt, KE8DZV

Dues are payable on or before January 31, 2025. If you have already paid THANK YOU.

Dues can be paid in two ways:
You can mail a check to:

CARS
PO Box 31264
Independence, OH 44131-0264

Pay in person at any CARS meeting.

Dues are $26.00 per year for regular membership. Each additional family member is $16.00. If you are 60 yrs. or older, your dues are only $18.00 per year. CARS will offer assistance to anyone having a hardship. Please let me know if you have a hardship or know a member who needs help.

2025 CARS Committees, Officers, Board and Trustees

CARS 2025 Committees

50/50

Chair: Andy Evridge, KD8SCV

Member: Joe Ulazewski, KD8BAL

ARRL Liaison

Chair: John Dernar, NU8Y

Audio/Video

Chair: Scott Smith, AC8NW

Audit

Chair: John Dernar, NU8Y

Members: Eddie Stevens, KD8FTS and Toby Kolman, WT8O

Awards

Co-Chairs: Toby Kolman, WT8O and Mark Moro, WJ8WM

Field Day

Co-Chairs: Chair: Toby Kolman, WT8O, Assistant Chair: Bob Robbins, K8RGI

Members: David Korow, AC8TN; Andy Evridge, KD8SCV; Chuck Mehozonek, K8CVM, and Mark Moro, WJ8WM

Hamvention Bus

Chair: Eddie Stevens, KD8FTS

Historian

Chair: Toby Kolman, WT8O

Holiday Party, Summer Picnic

Chair: Al Farley, KF8BCC

Member: Mark Moro, WJ8WM

License Classes

Chair: David Noeth, KD8ACO

Members: Joel Chaney, K8SHB,; Toby Kolman, WT8O

Media Representative

Chair: Andy Evridge, KD8SCV

Membership

Chair: Toby Kolman, WT8O

Member: Matt Perlman, KE8OZU

Net

Chair: Toby Kolman, WT8O

Members: Scott Smith, AC8NW, David Korow, AC8TN, and David Noeth, KD8ACO

Newsletter

Chair: Perry Trunick, KB8AYQ

Member: Yuri Sivitski, W4YSW

Programs at Meetings

Chair: Joe Ulaszewski, KD8BAL

Members: Eddie Stevens, KD8FTS and Matt Perlman, KE8OZU

Public Service

Chair: Eddie Stevens, KD8FTS

Members: Chuck Mehozonek, K8CVM, and Arp Viiberg, K8ARP

QSL Manager

Chair: Metro Sinko, W8MET

Quartermaster

Chair: Toby Kolman, WT8O

Records Custodian

Chair: Terry Pillatt, KB8DTC

Refreshments - Coffee

Chair: John Dernar, NU8Y

Refreshments - Donuts

Chair: Matt Neely, NU8H

Refreshments - Pop

Chair: Mark Rosewicz, KC8ESG

Scholarship

Chair: Toby Kolman, WT8O

Members: Bob Robbins, K8RGI, Matt Perlman, KE8OZU, and Mark Moro, WJ8WM

Sunshine (Welfare)

Chair: Andy Evridge, KD8SCV

Technical

Chair: Scott Smith, AC8NW

Members: Mark Scoville, AD8KE, Terry Pillatt, KB8DTC, Mark Rosewicz, KC8ESG, David Noeth, KD8ACO and Mark Moro, WJ8WM

VE Exams

Chair: Metro Sinko, W8MET

Members: George Pindroh, K8KR; Fred Freer, K8IG: David Korow, AC8TN, Simpson Huston, N8UZF, Matt Neely, NU8H

Webmaster/email

Chair: Matt Perlman, KE8OZU

2025 Officers

President

Toby Kolman, WT8O

440-525-6109

wt8o@att.net

Vice-President

John Dernar, NU8Y

440-237-8872

dern123@sbcglobal.net

Secretary

Matt Neely, NU8H

216-965-4476

matt@matthewneely.com

Alternate Secretary:

Matt Perlman, KE8OZU

Treasurer

Matt Perlman, KE8OZU

216-337-1540

matt@seagem.me

CARS 2024 Executive Board

Board Chair

Mark Moro, WJ8WM

216-496-2871

Alternate: Arp Viiberg, K8ARP

Even Year Board Members

Scott Smith, AC8NW; John Dernar, NU8Y, and Mark Moro, WJ8WM

Odd Year Board Members

Eddie Stevens, KD8FTS; Mark Rosewicz, KC8ESG, and Al Farley, KF8BCC

CARS License Trustees

K8ZFR Trustee

Toby Kolman, WT8O

W8BM Trustee

Mark Moro, WJ8WM

W8HBI Trustee

Matt Perlman, KE8OZU

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